LSI LOGIC LEGAL IP → 917037464000

NO.174

7003

PART B - FEE(S) TRANSMITTAL

Complete and send	d this form, toget	her with applicab	le fee(s), to: Mai

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450

(703) 746-4000 or <u>Fax</u>

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10/04/2004

LSI LOGIC CORPORATION 1621 BARBER LANE MS: D-106 LEGAL

MILPITAS, CA 95035 10/21/2004 BSAYASI2 00000085 122252 10676934

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Connie del Cas	O (Depositor's name
Connie del	andle (Signatur
10/20/0	(Date

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,934	09/30/2003	Byung-Sung Kwak	02-5624	7850

TITLE OF INVENTION: PROCESS FOR REDUCING IMPURITY LEVELS, STRESS, AND RESISTIVITY, AND INCREASING GRAIN SIZE OF COPPER FILLER IN TRENCHES AND VIAS OF INTEGRATED CIRCUIT STRUCTURES TO ENHANCE ELECTRICAL PERFORMANCE OF COPPER FILLER

APPLN. TYPÉ	SMALL ENTITY	ISSUE FEE		PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1370		20	\$1370	01/04/2005
EXAM	MINER	ART UNIT		CLASS-SUBCLASS		
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CFR 1.363). Change of correspondedress form PTO/SB/1 "Fac Address" indica	e address or indication of "F. dence address (or Change of 22) attached. tion (or "Fee Address" Indicator more recent) attached. Use	Correspondence	(1) the name or agents (2) the name registered 2 registered	ating on the patent front page, limes of up to 3 registered pater DR, alternatively, me of a single firm (having as a attorney or agent) and the name dipatent attorneys or agents. If name will be printed.	member a 2	Taylor
	RESIDENCE DATA TO B			(print or type) ear on the patent. If an assign for filing an assignment.	ee is identified below, the	document has been filed for
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4a. The following fee(s) are	enclosed:	4b. P:	ayment of	Fee(s):		
☐ Issue Fee	•		A check	in the amount of the fee(s) is en	closed.	
Dublication Fee (No s	mall entity discount permitte	an 🗆	Payment	by credit card. Form PTO-2038	is attached.	
	Copies		_	ctor is hereby authorized by clount Number 12-2252		credit any overpayment, to copy of this form).
a, Applicant claims S	(from status indicated above MALL ENTITY status. Sec.	37 CFR 1.27.		ant is no longer claiming SMAI		
The Director of the USPTO NOTE: The Issue Fee and P interest as shown by the rece	is requested to apply the Issuublication Fee (if required) words of the United States Pate	e Fee and Publication vill not be accepted fro int and Trademark Off	n Fec (if an om anyond fice.	y) or to re-apply any previously other than the applicant; a regi-	paid issue fee to the application of the application of the store of the paid is the store of th	ation identified above. he assignee or other party in
Authorized Signature	STRULL			Date	2004 04	/
Typed or printed name_	Timothy Croll			Registration:	No. 36,771	

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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LSI Logic Corporation Legal Department - IP 1621 Barber Lane, MS D-106 Milpitas, CA 95035

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Fax No	703-746-4000	Telephone No.		7191	
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FEE TRANSMITTAL

Palent Fees are subject to annual revision on October 1.
These are the fees effective October 1, 1987.
Small Entity payments must be supported by a small entity statement,
otherwise large entity fees must be paid. See Forms PTO/SB/09-12.
See 37 C.F.R. 1.27 and 1.28.

TOTAL AMOUNT OF PAYMENT

Com	plete if Known	
Application Number	10/676,934	
Filing Date	September-30, 2003	
First Named Inventor	Byung-Sung Kwak	
Group Art Unit	2823	
Examiner Name	Thanh J. Pham	-
Attorney Docket No.	/ 02-5624	/

METHOD OF PAYMENT (check one)				FEE C	ALCULATION (continued)]
	3. A	ודוסם				
The Commissioner is hereby authorized to charge Indicated fees and credit any over payment to: Deposit Account :12-2252	Large Fee Code	Entity Fee (\$)	Large Fee Code	Entity Fee (\$)	Fee Description Foe Paid	
Number	105	130	205	65	Surcharge - late filing fee or oath	
Deposit Account LSI LOGIC CORPORATION	127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
Number	139	130	139	130	Non-English specification	1
Charge Arry Additional Fee Charge the Issue Fee Set in 37 C.F.R. 1.18 of the	147	2,520	147	2,520	For filing request for reexamination	1
required Under 37 Mailing of the Notice of	112	920*	112	920	Requesting publication of SIR prior to Examiner action	
2. Payment Enclosed:	113	1.840*	113	1,840*	Requesting publication of SIR after Examiner action	
Check Order Other	115	110	215	55	Extension for reply within first month	
FEE CALCULATION	116	400	216	200	Extension for raply within second mont	1
1. BASIC FILING FEE	117	950	217	475	Extension for reply within third mont	1
Large Entity Large Entity Fee Fee Fee Description Fee Pald	118	1510	218	755	Extension for raply within fourth mont	
Fee Fee Fee Fee Description Fee Pald Code (\$) Code (\$)	128	2,080	228	1,030	Extension for reply within fifth mont	ł
101 790 201 395 Utility filing fee	119	310	219	155	Notice of Appeal	i
106 330 208 165 Design filing fee	120	310	220	155	Filing a brief in support of an appea	
107 540 207 270 Plant filing fee	121	270	221	135	Request for oral hearing	
108 790 208 395 Relssue filing fee	138	1,510	138	1,510	Petition to institute a public use proceedin	
114 150 214 75 Provisional Filing fee	140	110	240	55 .	Petition to revive - unavoidabl	
SUBTOTAL (1) (\$) 0.00	141	1,320	241	660	Petition to revive - unintentional	
2. EXTRA CLAIM FEES	142	1,320	242	650	Utility issue fee (or reissue	1370
Extra Claim Fee from Fee Paid	143	450	243	225	Design Issue fee	
Total daim -20**= X =	144	670	244	335	Plant issue fee	
Independent 3**= X =	122	130	122	130	Petitions to the Commissioner	
Ctaims Multiple Dependent =	123	50	123	50	Petitions related to provisional application	
**or number previously paid, if greater; For Reiseues, see below	126	240	126	240	Submission of Information Disclosure Stm	
Fee Fee Fee Fee Fee Description	581	40	581	40	Recording each patent assignment per	
Code (\$) Code (\$)		***	0.40	205	property (times number of properties)	
103 22 203 11 Claims in excess of 20	146	790	246	395	Filing a submission after final rejection (37 CFR 1.129 (a))	
102 82 202 41 Independent claims in excess of 3	149	790	249	395	For each additional invention to be	
104 270 204 135 Multiple dependent claim, if not paid	'~	, 50	LTU	***	examined (37 CFR 1.129 (b))	
109 82 209 41 "Reissue independent claims over original patent	Other	fee (spe	cify)	PUBLI	CATION FE	
110 22 210 11 "*Reissue claims in excess of 20 and over original patent	Other	fee (spe	cify)		0/1970741 /0 /20/400 45 /	J 🗘 🖫
SUBTOTAL (2) (\$) 0.00	*Redu	ced by E	asic Fil	ng Fee	Paid SUBTOTAL (3) (\$)+336.00 /3	PO -
SUBMITTED BY					Complete (if applicable))
Typed or printed name Timothy Croll					Reg. Number 36,771	
Signature / ()		Date	0	x)di	Deposit Account User ID	j
C. K. WIII		<u></u>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	/ User IU	•

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